Lowe's Home Center's Inc. 3.85 MMBtu/hour engine	3 85 MMRtu/hour engine	CURRENT EMISSIONS REQ	CURRENT EMISSIONS REQUIREMENTS AND EMISSION SUMMARY	MARY				
1. EMISSION SOURCE REFERENCE NUMBER:	FERENCE NUMBER:	72-0129-01	NONATTAINMENT:	ATTAINMENT:	Y	2. LC	LOG # 063162P	62P
3A PERMIT STATUS:			3B DREVIOUS DERMIT NUMBER(S):	MRER(S):		ŀ		
NEW Y	RENEWAL	RELOCATION	CONSTRUCTION:	N: 962054P	OP.	OPERATING:		
4 IDENTIFY IF ONLY A	S POLLITANT	6 APPI ICARI E REOLIREMENTIS): 1	TN 7 I IMITATION	8 MAYIMI M ACTITAL EMISSIONS	TIIAI EMIS		IMIXAM O	M M
PART OF THE SOURCE IS SUBJECT TO THIS REQUIREMENT	S. I Children	AIR POLLUTIONS, 40 CFR, PERMIT RESTRICTIONS, AIR QUALITY	TAN CHARLEST FOR	o. MIJAHMOM AC) TO DE BINIC		ALLOWABLE EMISSIONS	E
		BASED STANDARDS		IN UNITS OF ITEM 7	POUNDS / HOUR	TONS / YEAR	POUNDS / HOUR	TONS / YEAR
All	PM	40 CFR 89.112	0.2 grams per kW-hr		0.09	0.02	0.18	0.05
All	VOC	1200-03-0603(2)	0.35 pounds per MMBtu		0.49	0.12	0.49	0.12
All	SO2	1200-03-1401(3)	15 parts per million	2.0	0.00	0.00	1.13	0.28
All	СО	40 CFR 89.112	3.5 grams per kW-hr		0.60	0.15	3.16	0.79
All	NOX	40 CFR 89.112	4.0 grams per kW-hr		3.61	0.90	3.61	0.90
	н							
All	Visible Emissions	1200-03-0501(1)	20% opacity, TVEE Method 9 (6 minute average)	SOURCE OF DATA ON EMMISSIONS IN ITEM 8: The information on this permit was taken from the calculation for the	A ON EMM permit was I	ISSIONS IN laken from th	ITEM 8: The calculation	e for the
				construction permit and from the new sulfur regulations. The engine will operate no more than 500 hours per year. Regulatory information is based on an engine power rating of 410.135 kW and 1.4 MMBtu as appropriate.	t and from th re than 500 h ed on an enginal ropriate.	e new sulfur ours per year ne power rati	regulations. Regulatory ng of 410.13	The engine
IF THIS IS NOT A TITLE V SOURCE,		IS THIS A DEFERRED SOURCE (SUBJECT TO NSPS OR NESHAPS) OR A SYNTHETIC M	OR NESHAPS) OR A SYNTHETIC MI	INOR SOURCE?	No			
IF THE ANSWER IS YES, EXPLAIN:	XPLAIN:			8				
ENGINEER:	DSW	DATE: 7/17/2014	SUPERVISOR:	VOM	D,	DATE:		

Calculations Lowes 72-0129/63162 7/17/2014

500 hours

Facility numbers

Agreed hours limit

500

Max agreed fuel usage (written)

13500 gall/year

Horse power=

550.0

Max. Fuel Usage = ? gal/hr

10.25137844 gall/hour

kW-hr=

410.1

Max agreed gal/yr (calc) =

5125.689222 gall/year

hours/year

1316.9

1.4

MMBtu/hour

Heat Input based on facility agreemnt letter dated 9-17-09

Diesel has 19,3000 btu/lb or 136,567 btu/gal and 7.076 lb/gal density

Potential/Actual Emissions from IC Engine/Diesel Fuel (Emission factors supplied by facility and EPA)

	Actual Emissions (lb/hr)	Potential Emissions (lb/hr)	Regulatory Limit (lb/hr)	Actual Emissions at 500 hours per year (TPY)	Regulatory Limit at 500 hr/yr (ton/yr)
PM	0.1	0.18	0.18	0.021	0.045
SO2	0.00	1.13	1.13	0.00	0.28
СО	0.6	3.16	3.16	0.1	0.8
VOC	0.5	0.49	0.49	0.1	0.1
NOx+ VOC	3.6	3.61	3.61	0.9	0.9

Allowable Sulfur Dioxide Emissions, TAPCR 1200-3-14-.01(3)

Company is required by EPA to meet 15 ppm standard

Allowable = gallons per hour time density times parts per million divided by one million

Allowable at 500 hours =

0.001088081

Pounds per hour 0.00027202

tons per year

Potential/Actual Emissions from IC Engine/Diesel Fuel (Emission factors supplied by AP42 and EPA)

	EPA Requirement in g/kw-hour	AP-42 in pounds per MMBtu/hr	EPA Requirement in pounds / hour	Facility numbers in pounds / hour with 500 ppm sulfur fuel
PM	0.2	0.31	0.18	0.1
SO2	*	0.29	*	0.1
СО	3.5	0.95	3.16	0.6
НС	*	0.35	*	0.028
NOx	4.0	4.41	3.61	3.6

Model year: 2007

Certificate of Conformity dated 8-25-06 reports that all engine emissions meet EPA standards. Engine was installed in November 2007 and manufactured in August 2007.